Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the instant application:

What is claimed is:

1. (Currently Amended) A method for supporting an application comprising the steps of:

receiving a problem indication relating to said application;

identifying a host within a grid environment;

associating a ghost agent with said host, said ghost agent being configured to include at least one of a test engine, a ghost log, and a controller, wherein the test engine loads test routines into said ghost agent, executes the test routines in response to received test commands, and analyzes within said ghost agent results of the executed test routines, wherein the ghost log stores information internally within said ghost agent, and wherein said controller accepts control signals from an external source and controls at least one of a life-span of said ghost agent and resources used by said ghost agent;

replicating actions of said host for use by said ghost agent; recording data relating to said replicated actions; and responding to said problem based at least in part upon said recorded data.

2. (Original) The method of claim 1, wherein said receiving step receives said problem indication from a user, wherein said associating step is performed responsive to receiving said problem indication, wherein said host of said associating step represents said user, and wherein said responding step further comprises using said recorded data to determine actions of said user that resulted in said problem.

- 3. (Original) The method of claim 1, further comprising the step of:
 providing a customer service interface, wherein a customer service representative
 utilizes said customer service interface during said responding step.
- 4. (Original) The method of claim 1, said responding step further comprising the step of:

executing a test using said ghost agent, wherein said test utilizes said recorded data.

5. (Original) The method of claim 1, wherein said responding step further comprises the step of:

performing a debugging operation using said ghost agent, wherein said debugging operation utilizes at least one replicated action.

- 6. (Original) The method of claim 1, further comprising the step of:
 comparing said recorded data with at least one operational threshold provided by
 said ghost agent, such that said recorded data includes results of said comparing step.
- 7. (Original) The method of claim 1, further comprising the steps of: automatically detecting a problem within said application; and automatically generating said problem indication responsive to said detecting step.
- 8. (Original) The method of claim 1, further comprising the step of:
 responsive to receiving said problem indication, automatically routing application
 activity from an area of said grid environment in which said problem occurred to an
 alternative area of said grid environment.

- 9. (Original) The method of claim 1, further comprising the step of: automatically fixing said problem based at least in part upon said recorded data.
- 10. (Original) The method of claim 1, further comprising the steps of: selecting a plurality of said hosts; and for each host repeating said associating step, said replicating step, said recording step, and said responding step.
- 11. (Original) The method of claim 1, further comprising the steps of: identifying a location that is external to said ghost agent; and conveying said recorded data to said identified location.
- 12. (Original) The method of claim 1, further comprising the steps of:
 moving said host within said grid environment; and
 moving said ghost agent within said grid environment in accordance with a
 movement of said host.
- 13. (Original) The method of claim 1, further comprising the steps of: disassociating said ghost agent from said host; and associating said ghost agent with a different host.
- 14. (Currently Amended) A customer service environment comprising:
 a plurality of hosts, wherein said hosts are software objects for an application
 domain distributed within a grid environment, said grid environment being a distributed
 computing system that includes a plurality of hardware and software components;

at least one ghost agent configured to be associated with at least one of said hosts,

wherein said ghost agent moves within a grid environment and is configured to include at

least one of a test engine, a ghost log, and a controller, said test engine configured to load

test routines into said ghost agent, execute the test routines in response to received test

commands, and analyze within said ghost agent results of the executed test routines, said

ghost log configured to store information internally within said ghost agent, and said

controller configured to accept control signals from an external source and control at least

one of a life-span of said ghost agent and system resources used by said ghost agent; and

a customer service application configured to utilize ghost agents to determine

actions leading to at least one problem.

15. (Original) The customer service environment of claim 14, wherein said

customer service application is further configured to debug said at least one reported

problem using said ghost agents.

16. (Original) The customer service environment of claim 14, further comprising:

a service data store communicatively linked to a plurality of ghost agents, wherein

said service data store is configured to record data generated by said ghost agents for use

by said customer service application.

17. (Currently Amended) A machine-readable storage having stored thereon, a

computer program having a plurality of code sections, said code sections executable by a

machine for causing the machine to perform the steps of:

receiving a problem indication relating to said application;

identifying a host within a grid environment, said ghost agent being configured to

include at least one of a test engine, a ghost log, and a controller, wherein the test engine

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loads test routines into said ghost agent, executes the test routines in response to received

test commands, and analyzes within said ghost agent results of the executed test routines,

wherein the ghost log stores information internally within said ghost agent, and wherein

said controller accepts control signals from an external source and controls at least one of

a life-span of said ghost agent and resources used by said ghost agent;

associating a ghost agent with said host;

replicating actions of said host for use by said ghost agent;

recording data relating to said replicated actions; and

responding to said problem based at least in part upon said recorded data.

18. (Original) The machine-readable storage of claim 17, wherein said receiving

step receives said problem indication from a user, wherein said associating step is

performed responsive to receiving said problem indication, wherein said host of said

associating step represents said user, and wherein said responding step further comprises

using said recorded data to determine actions of said user that resulted in said problem.

19. (Original) The machine-readable storage of claim 17, further comprising the

step of:

providing a customer service interface, wherein a customer service representative

utilizes said customer service interface during said responding step.

20. (Original) The machine-readable storage of claim 17, said responding step

further comprising the step of:

executing a test using said ghost agent, wherein said test utilizes said recorded

data.

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alternative area of said grid environment.

21. (Original) The machine-readable storage of claim 17, wherein said responding step further comprises the step of:

performing a debugging operation using said ghost agent, wherein said debugging operation utilizes at least one replicated action.

22. (Original) The machine-readable storage of claim 17, further comprising the step of:

comparing said recorded data with at least one operational threshold provided by said ghost agent, such that said recorded data includes results of said comparing step.

23. (Original) The machine-readable storage of claim 17, further comprising the steps of:

automatically detecting a problem within said application; and automatically generating said problem indication responsive to said detecting step.

- 24. (Original) The method of claim 17, further comprising the step of:
 responsive to receiving said problem indication, automatically routing application
 activity from an area of said grid environment in which said problem occurred to an
- 25. (Original) The machine-readable storage of claim 17, further comprising the step of:

automatically fixing said problem based at least in part upon said recorded data.

26. (Original) The machine-readable storage of claim 17, further comprising the steps of:

selecting a plurality of said hosts; and

for each host repeating said associating step, said replicating step, said recording step, and said responding step.

27. (Original) The machine-readable storage of claim 17, further comprising the steps of:

identifying a location that is external to said ghost agent; and conveying said recorded data to said identified location.

28. (Original) The machine-readable storage of claim 17, further comprising the steps of:

moving said host within said grid environment; and

moving said ghost agent within said grid environment in accordance with a movement of said host.

29. (Original) The machine-readable storage of claim 17, further comprising the steps of:

disassociating said ghost agent from said host; and associating said ghost agent with a different host.

30. (Currently Amended) A system for supporting an application comprising the steps of:

means for receiving a problem indication relating to said application;

means for identifying a host within a grid environment;

means for associating a ghost agent with said host, said ghost agent being configured to include at least one of a test engine, a ghost log, and a controller, wherein

the test engine loads test routines into said ghost agent, executes the test routines in

response to received test commands, and analyzes within said ghost agent results of the

executed test routines, wherein the ghost log stores information internal to said ghost

agent, and wherein said controller accepts control signals from an external source and

controls at least one of a life-span of said ghost agent and resources used by said ghost

agent;

means for replicating actions of said host for use by said ghost agent;

means for recording data relating to said replicated actions; and

means for responding to said problem based at least in part upon said recorded

data.

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